

INTEGRATED COMPOSITE STRUCTURAL CONDUIT FORMED IN PLACE

ABSTRACT OF THE DISCLOSURE

A composite, chemically integrated material structure bearing load around a close-loop structural configuration in cross-section, has a plurality of regions through the cross-sectional thickness imparting at selectively predetermined locations within the cross-section, high tensile strength and high compressive strength.

5 A method for forming such an integrated, composite material structure onto and incorporating an established or pre-existing, but likely deteriorated, concrete or brick structure, while achieving precise, predetermined resulting interior diameter and other structural dimensions is described.